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0110 Intelligenetics
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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us2.res made by schreib on Fri 13 Feb 98 10:49:35-PST.

Query sequence being compared: US-08-815-773-2 (1-380)
Number of sequences searched: 2
Number of scores above cutoff: 2

Results of the initial comparison of US-08-815-773-2 (1-380) with:
File: 5710023.pep

100-
N -
U -
M -
B -
E -
R -
O -
F -
S -
E -
O -
U -
N -
C -
E -
S -
SCORE 0 42 84 127 169 211 253 296 338 380
STDEV -1 1 1 1 1 1 1 1 1 1

PARAMETERS
Similarity matrix Unitary 1 K-tuple 2
Mismatch penalty 1.00 Joining penalty 20
Gap size penalty 0.05 Window size 32
Cutoff score 1
Randomization group 0

SEARCH STATISTICS

Scores: Mean 291 Median 204 Standard Deviation 125.16
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00

Number of residues: 763
Number of sequences searched: 2
Number of scores above cutoff: 2

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name Description Init. Opt. Length Score Score Sig. Frame

1. US-08-609-572-4 Sequence 4, Application US 380 380 380 0.71 0
The list of other best scores is:

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
2. US-08-609-572-2 Sequence 2, Application US 383 203 220 -0.70 0

1. US-08-815-773-2 (1-380)
US-08-609-572-4 Sequence 4, Application US/08609572

Sequence 4, Application US/08609572
Patent No. 5710023

GENERAL INFORMATION:
APPLICANT: COLLINS, Mary
APPLICANT: Donaldson, Debra
APPLICANT: Filz, Lori
APPLICANT: Neben, Tamlyn
APPLICANT: Whilters, Matthew
APPLICANT: Wood, Clive
TITLE OF INVENTION: CYTOKINE RECEPTOR CHAIN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genetics Institute, Inc.
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: USA
ZIP: 02140

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/609,572
FILING DATE:
CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:
NAME: Brown, Scott A.
REGISTRATION NUMBER: 32,724
REFERENCE/DOCKET NUMBER: G15268
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 498-8224
TELEFAX: (617) 876-5851
INFORMATION FOR SEO ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 380 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein

Initial Score = 380 Optimized Score = 380 Significance = 0.71
Residue Identity = 100% Matches = 380 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X 10 20 30 40 50 60 70
MAFVLAIGCLYFLISTTFTGCTSSSDPEIKVNPDPDEIYDPGLYGLYLOMOPPLSLDHFKECTVEYELK
|||||
MAFVLAIGCLYFLISTTFTGCTSSSDPEIKVNPDPDEIYDPGLYGLYLOMOPPLSLDHFKECTVEYELK
X 10 20 30 40 50 60 70
YRNISSEWTKITITKNIHKGKGFIDANKIEAKIHITLPMOCTNGSEVOSSAETTYWISPGIGIETKQVMD
|||||
YRNISSEWTKITITKNIHKGKGFIDANKIEAKIHITLPMOCTNGSEVOSSAETTYWISPGIGIETKQVMD
X 80 90 100 110 120 130 140
CYIYMWQILLSSMKPGICIVLLDTNINLEFYWTEGDLHALQCVYIKADQNIIGCRPPLLEASDYKDFYCVNG
|||||

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CVYNNQYLLCSMKPGIGVLDFTNINLFYWEGLDHALQCVDIKADGONIGCRFPYLEASDYKDFYICVNG
150      160      170      180      190      200      210
220      230      240      250      260      270      280
SSNNKPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
|||||
SSNNKPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
220      230      240      250      260      270      280
290      300      310      320      330      340      350      360
ENETTYLKTNETROLCFYVRSKVNIYCSDDGIMSEMSDKQCEGDELSTKTLRFLWLPFGFTLLIVIVTG
|||||
ENETTYLKTNETROLCFYVRSKVNIYCSDDGIMSEMSDKQCEGDELSTKTLRFLWLPFGFTLLIVIVTG
290      300      310      320      330      340      350      360
370      X
LLLRKNTYPKMIPEFCDT
|||||
LLLRKNTYPKMIPEFCDT
370      380

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2. US-08-815-773-2 (1-380)

US-08-609-572-2 Sequence 2, Application US/08609572

Sequence 2, Application US/08609572
Patent No. 5710023

GENERAL INFORMATION:

APPLICANT: Collins, Mary
 APPLICANT: Donaldson, Debra
 APPLICANT: Fitz, Lori
 APPLICANT: Neben, Tamlyn
 APPLICANT: Whilters, Matthew
 APPLICANT: Wood, Clive
 TITLE OF INVENTION: CYTOKINE RECEPTOR CHAIN
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genetics Institute, Inc.
 STREET: 87 Cambridge Park Drive
 CITY: Cambridge
 STATE: MA
 COUNTRY: USA
 ZIP: 02140

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/609,572
 FILING DATE:
 CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Brown, Scott A.
 REGISTRATION NUMBER: 32,724
 REFERENCE/DOCKET NUMBER: G15268
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 498-8224
 TELEFAX: (617) 876-5851
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 383 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

Initial Score - 203 Optimized Score - 220 Significance - -0.70
 Residue Identity - 57% Matches - 226 Mismatches - 139
 Gaps - 31 Conservative Substitutions - 0

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X      10      20      30      40      50      60      70
MAFVLAIGCLYTLTTCGCTSSSTETKVNPPQDFEIVDPGLYGLYLOMQPPLSLDHFKCTVEYELK
|||||

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MAFV--HIRCLFILLCTITG----YSLEIKVNPPODFEILDPGLGLYLYLOMKRPVYIEKFKGCTLEYELK
X      10      20      30      40      50      60
80      90      100      110      120      130      140
YRNIGSETWKTIITRNKLNHYKDFDLNKLKGIKARHLLPWOCNNGSEVOSSNAETTYWISPOGIPETKVODND
|||||
YRNIGSETWKTIITRNKLNHYKDFDLNKLKGIKARHLLPWOCNNGSEVOSSNAETTYWISPOGIPETKVODND
70      80      90      100      110      120      130
150      160      170      180      190      200      210
CVYNNQYLLCSMKPGIGVLDFTNINLFYWEGLDHALQCVDIKADGONIGCRFPYLEASDYKDFYICVNG
|||||
CVYNNQYLLCSMKPGIGVLDFTNINLFYWEGLDHALQCVDIKADGONIGCRFPYLEASDYKDFYICVNG
140      150      160      170      180      190      200      210
220      230      240      250      260      270      280
SSENNPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
|||||
SSENNPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
220      230      240      250      260      270      280
SKLEPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
|||||
SKLEPIRSSYFFFOLONIYKPLPPVYLFTFRESSCEIKLKWISIPGLPIPARCFDEIEIREDDTLVTATV
220      230      240      250      260      270      280
360      370      X
TGLLRKNTYPKMIPE-----FFCDT
|||||
IFLLLLCLIVEKEEPEPTLSLHVDLNKEVCAYEDTLC
360      370      380

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